

MANUFACTURE OF THERMOCURING RESIN DECORATIVE SHEET HAVING THREE-DIMENSIONAL FEELING

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Abstract

PURPOSE: To obtain a decorative sheet, having good designing sense holding the feeling of mat, which is synchronized with an usual printing layer, as well as three-dimensional feeling, by effecting protruding printing with ink containing extender pigment in the conduits thereof.

CONSTITUTION: The usual printing layer 2 of desired patterns is formed on a decorative base paper 1 with usual printing ink, then, the protruding printing layer 3 of desired patterns is formed with ink containing extender pigment and, subsequently, the decorative base paper 1, on which two kinds of said printing layers are formed, is impregnated with thermosetting resin 3 and is dried to form impregnated paper to be laminated on a base material 4, then, heating and pressure molding process is applied thereon. The extender pigment, contained in ink resin, is preferably porous filler of a degree having the average grain size of 5-30 μ m while the extender pigment or organic foaming filler or the like, such as diatomite, shirasu balloon, urea resin beads, epoxy resin beads, kaolin, clay or the like, is used as filler. Thermosetting resin, with which the decorative base paper is impregnated, is preferably melamine resin, diallyl phthalate resin from the view point of designing effects.

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